

OFFICIAL NEWSLETTER OF THE LONG ISLAND COMPUTER ASSOCIATION, INC.

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HOURS MON WED FRI 10-6

TUE THU 10-8

SAT 10-5

PRESIDENT'S MESSAGE NOVEMBER 1983

These are most interesting times in which we live. Certainly this is true when we consider the exponential growth of so-called "high technology". But these times are interesting from quite another point of view. Just look at how we each tend to our livelihood.

More families than ever before have multiple incomes, not just because both husbands and wives work, nor because of moonlighting for additional wages. A surprising number of people have opened up their own cottage-style businesses. These enterprises include both conventional and mail-order retailing and the sale of consulting services. I'd venture to say that a significant number of LICA Associates are engaged in such activities. For many a hobby has turned into a source of financial support.

For my part, I see only one difficulty with this trend. The customers of hobbyist-run businesses are frequently other hobbyists. We run the same risk as those in multi-level marketing enterprises: we may run out of customers who are not also our own suppliers. We also find ourselves in the peculiar position of having to guarantee support to customers who are no longer removed geographically or socially from ourselves-we are selling to our friends and neighbors.

As President of this Corporation the past two years, I've been hit with an increasing number of comments and complaints from LICA Associates who feel less than honorably served by others among us. Having neither adequate time to investigate, not the Solomonic wisdom to adjudicate these squabbles, I am able only to make mention of these situations.

Ours is a complex hobby. Our playthings are complex devices, and the software systems operating on them are likewise complex. These are some of these reasons that we have joined together in this not-for-profit organization. A spirit of good will and cooperation are essential for our continued growth and effectiveness. So please, those of you who are also commercially involved with computers and computing - be especially ethical in all of your dealings with hobbyists like yourselves. You potential customers should also bear in mind that a certain amount of discretion and restraint in purchasing the tools of our hobby is a good thing. After all, you're not "dumbbells". Computers are for thinking people.* Don't stop thinking when you power down your machines. ams

DIF PROGRAM FOR APPLE II COMPUTERS

We recently were required to convert a commercial software product from AppleSoft BASIC to BASIC-80, in order to permit its transportation to and subsequent compilation onto a multi-user Z80-based system. Several weeks into the project the original vendor issued an updated diskette. Our problem was to determine exactly what changes and enhacements, if any, had occured since the release of the prior version. Public domain software for CP/M users includes several file comparison programs. As has so often happened before, we had neither the time nor resources to determine if similar utilities exist for APPLE II computer users, so we wrote our own. The program is called DIF. It can compare two AppleSoft BASIC source files, by character within line, and produces a report of any line containing so little as a single altered control character. Operation on the largest possible files that can be run on an APPLE takes a few minutes at the most.

Copies of the DIF program, the utility to convert an AppleSoft BASIC program into a text file, and an accompanying documentation file are \$5 postpaid. It is available without charge to LICA members.

MONTHLY MEETINGS

All meetings, except IBM PC/UG are held at the New York Institute of Technology, Old Westbury Campus LICA meets each month on the third Friday evening at 8:00 in Room 508, Building 500

See the back cover of the Stack for map and directions Our next general meeting will be held on the 18TH of November. Our guest speaker will be Mr. Ron Richards who will speak on the future of rotating media. When Mr. Richards addressed LICA in 1982 he was brought back for a second discussion by public demand.

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SECRETARY'S REPORT ON LICA MEETING OF 21 OCTOBER 1983

Al Stone, our president, announced that the principal speaker of the evening was called away unexpectedly. However Tom Golway would continue his discussion of Local Networks. The Beginners Group would be conducted by Josh Weinberg after the break.

Stan Misel asked for a volunteer to give an introductory talk on computers to the Friends of the Mineola Library. The talk will be scheduled for the first Friday of either May or June, 1984. Volunteers should contact Stan or Jim Rooney at 100 Garden City Plaza.

Stan also reported that about ten LICA members have logged on to his Zenix system via modem as descibed in a previous Stack. Volumes 139, 142, 144, 145 of the SIG/M library are on line and can be downloaded. The phone number is 541-7949.

Irwin Weitman asked if anyone had information about a CP/M 2.2 BIOS to run on a Cromemco computer. Please call him at 266-2428.

Mike Bonadio wanted information on an interface between an Apple IIe and a Smith-Corona TP-2 or TP-2+ printer. He can be reached at (212) 463-2129.

Stu Greenberg spoke about the recently reported FBI raids on amateur computer operators. He said that although there were no formal charges or arrests, their equipment was confisated. Stu talked about the dangers inherent in such raids and in his opinion they were done to scare people. Other members in the audience had different opinions and a lively discussion took place.

There was a discussion of sending digital data over ham radio. Stu Domber said he had done this successfully a couple of years ago.

A motion to discuss the subject of Computer Security at the next meeting was passed.

Al Levy reported on the Third Annual LICA Computer Fair. He is looking for a location. Some of the places he is investigating are: Holiday Inn in Hempstead, Mid Island Plaza, Lymark location, Belmont, Kennedy Airport, Roosevelt Raceway and NYIT. The date has been established as the first Saturday in June 1984.

Ed Zuilkowski reported on the Nominating Committee. It met last Saturday and came up with a tentative election slate. However there has not been time to contact everyone to get their acceptance. There will be a formal listing of the proposed candidates in the next issue of the Stack. Anyone interested in making a nomination for any of the club's elective offices should contact Ed.

Ken reported on the recent CP/M show in Boston. There were many new products shown and the seminars had big name speakers. He also summarized other computer shows held in the area about the same time.

After the break, Tom Golway of Control Information Systems continued his lecture series on Local Networks. His first lecture on this subject was given at the August LICA meeting. Also a large part of the audience attended another session of Josh Weinberg's Beginners Class, held at the same time.

Frank Davidoff, Secretary

NOTICE

Mr.Davidoff is following Horace Greely's advice and moving to sunny California.

As a parting message I want to take this opportunity to thank you for encouraging articles on TECHNICAL TOPICS for the STACK. I also want to thank you for introducing me to concepts such as raster scanning and the like. Your talks on digital video and PIP were enlightening for new and "seasoned" members of the S/100 sig.

Because you had the patience to listen **and respond** to questions of LICA members, we feel a little less stupid.

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THE LICA LIBRARY

LICA is proud to own a library of disks (CPM and SIG/M) plus a few shelves filled with books and magazines. These books will be available on loan as of February of 1984. The name/address/phone of the librarian will be published in the STACK as soon as a proper library card system is completed.

Amid the collection LICA members will find the various newsletters received by us over the past years. In addition, there are many magazines including the first years of BYTE, Doctor Dobbs, Creative Computing, S/100 and Microsystems, etc etc etc.

Some of the books were donated by Frank Davidoff. Before he leaves for California I think it is appropriate that I acknowledge his gift. Here is a partial of the LICA library.

Titles	Author(s)	Publisher	DATE
SUPER-WUMPUS	JACK EMMERICH	PAPERBYTE	1978
COMPUTER MATHEMATICS HANDBOOK	JEROLD & MARTIN CLIFFORD	ALLYN & BACON	1974
MICROPROCESSORS	LAURENCE ALTMAN	McGRAW HILL	1975
EDN DESIGNERS GUIDE TO SEMICONDUCTOR MEMORIES	ROBERT J FRANKENBERG	HEWLETT PACKARD	1976
BUBBLE MEMORY DESIGN HANDBOOK		INTEL MAGNETICS	1979
SYSTEMS ENGINEERING TODAY	VARIOUS AUTHORS	CHILTON PUBL.	
NEW DIRECTIONS FOR DESIGNERS (MICROPROCESSORS)	EDWARD A TORRERO	HAYDEN	1975
AUERBACH ON TIME SHARING	AUERBACH	AUERBACH	1970
PL/C ESSENTIALS	LAWRENCE J MAZLACK	McGRAW HILL	1977
MICROPROCESSOR BASICS	S ELPHICK	HAYDEN	1977
MICROPROCESSORS & MICROCOMPUTERS	DAVID COLLINS	INTERGRATED	1973
DATA PROCESSING FOR SECISION MAKING	RICHARD W BRIGHTMAN	MACMILLAN	1969
OWNING YOUR HOME COMPUTER	ROBERT L PERRY	EVEREST HOUSE	1980
MICRO PROCESSOR HANDBOOK	VARIOUS AUTHORS	TEXAS INSTRUMENTS	1975
WORD PROCESSORS	KATHRYN LAYMAN	PRENTICE HALL	1981
KEYPUNCHING (3RD EDITION)	PEGGY HANSON	PRENTICE HALL	1967
MICROPROCESSOR PRODUCTS	USER MANUAL FOR COSMAC MICROPROCESSOR	RCA	1975
FORTRAN AND FORTRAN PROGRAMMING	FREDERIC STUART	WILEY	1966
MORE FORTRAN PROGRAMS FOR ECONOMISTS	LUCY JOAN SLATER	CAMBRIDGE UNIV PRESS	1972
MICROCOMPUTER EXPERIMENTATION WITH THE MEK 6800D2	LANCE A LEVINTHAL	PRENTICE HALL	1981
PROCESSOR ARCHITECTURE	SH LAVINGTON	NCC	1976
SNOBOL3 PRIMER	ALLEN FORTE	MIT PRESS	1968
ADVANCED ANALYSIS WITH THE SHARP 5100 CALCULATOR	J M SMITH	WILEY	1979
COBOL FOR BEGINNERS	THOMAS WORTH	PRENTICE HALL	1977
SNOBOL AN INTRODUCTION TO PROGRAMMING	PETER NEWSTED	HAYDEN	1975
PROGRAMMING FOR POETS (USING FORTRAN)	RICHARD CONWAY	WINTHROP	1978
MATHEMATICS IN FUN & EARNEST	NATHAN COURT	MENTOR	1961
BASIC FROM THE GROUND UP	DAVID E SIMON	HAYDEN	1978
GETTING INVOLVED WITH YOUR OWN COMPUTER	STANLEY VEIT & LESLIE SOLOMAN	ENSLOW	1977
AN INTRODUCTION TO ELECTRONIC COMPUTERS	GORDON S DAVIS	McGRAW HILL	1965
INTRODUCTION TO COMPUTER PROGRAMMING	FRANCIS WALNUT	PRENTICE HALL	1968
360 PROGRAMMING IN ASSEMBLY LANGUAGE	CHAPIN	McGRAW HILL	1968
PCC REFERENCE BOOK	DWIGHT McCABE	PEOPLES COMPUTING	1977
INFORMATION	VARIOUS AUTHORS	SCIENTIFIC AMERICAN	1966
COMPUTER PROGRAMMING SYSTEMS	E PETER FISHER	HOLT -	1964
HOW TO BUILD YOUR OWN MICROCOMPUTER	CHARLES ADAMS	TAB	1980
ELECTRONIC CALCULATORS	H EDWARD ROBERTS	SAMS	1974
INTRODUCTION TO DATA PROCESSING	F R CRAWFORD	PRENTICE HALL	1968
MICROCOMPUTER EXPERIMENTATION WITH THE SDK-85	LANCE LEVENTHAL & COLIN WALSH	PRENTICE HALL	1980
ANS COBOL A PRAGMATIC APPROACH	ROSS OVERBEEK & W E SINGLETARY	McGRAW HILL	1975
FORTRAN IV SELF TAUGHT	MARIO V FARINA	PRENTICE HALL	1966

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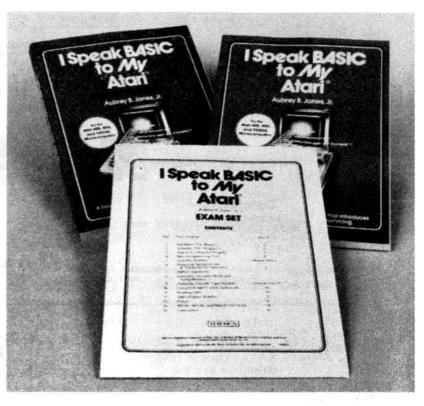
SPEAKING ABOUT BOOKS

We have all experienced the non-English versions of manuals. Often, manuals, text-books and the like are written and developed by engineers, teachers and other educational types. Nothing is as frustrating as trying to learn, and not understanding the subject matter at hand.

Much of my life has been devoted to fighting the systems developed by educational institutions on the grounds that what they call "teaching" is in reality "telling." In my humble opinion, a teacher's pay should be based on the succes of the students in his or her class.

In the same vein, a text-book is rarely worth the paper it is written upon. The computer "business" suffers from much the same disease (non-communication.)

I recently received a book entitled
"I SPEAK BASIC TO MY ATARI" The author is
Aubrey B. Jones, Jr. and the book is
published by HAYDEN BOOK COMPANY, INC of
Rochelle Park New Jersey. There are no
background notes on Mr. Jones.



One of the opening statements: "People control computers and computers cannot think (despite what you might have heard.)" I liked Mr.Jones from that point on.

The layout is an 8 X 11 page with 10 to 20 lines of large text per page. There are illustrations throughout which certainly helps us to learn in an analog fashion.

Mr.Jones often uses a split/screen technique. The left hand side of the page describing your action and the right hand side of the page showing the CRT display.

There are beautiful charts on pages 164, 166 and 168, describing the video screen.

There are many short programming examples which will certainly help the beginner to grasp the more meaningful concepts of programming.

The author uses many traditional methods of explaining items such as the DIM statement and this is where I see the book falling into the usual "telling" rut. Despite announcing his aim (in chapter eight) that you are about to learn the difference between numerics and strings, there is no way other than testing to indicate that the difference is clearly defined in the mind of the student.

"I SPEAK BASIC TO MY ATAR!" is by far the best book I have seen to date on BASIC programming. If you do not own an ATAR!, ignore the special ATAR! CHR\$ functions, peeks, pokes, plots and colors. You will still find this "manual" helping you to program in BASIC quite quickly.

I can highly reccomend an additional book entitled "THE BASIC HANDBOOK" by David A Lien. The book is published by COMPUSOFT, P.O. Box 19699, San Diego CA 92119

When I started programming I had nothing but a user's manual, some popular magazines, and "THE BASIC HANDBOOK" to get me started. "THE BASIC HANDBOOK" will not teach you to program. It will serve as a reference. When you reach that point of frustration, after re-reading and retyping a program from a magazine for the 100th time, take out the handbook and you will find an excellent cross reference of various BASIC's.

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THE LICA SOFTWARE DISC

In the October issue of the STACK we started listing the various SIG/M volumes. More are listed on the next few pages of this issue. We will continue to list all of the CP/M and SIG/M volumes until a full listing has been completed. At that point, we will list only the new releases.

This listing is being printed so that members of LICA can have a printed copy of the CP/MUG library listings.

The LICA CP/M users group has prepared and 8" disk containing the catalogs of public domain software. These catalogs are from both the CP/M users group (CPMUG) and the special interest group (SIG/M). This will be referred to hereafter as the LICA disk.

The public domain software covers a wide range of topics, from games to business systems with a few interesting stops along the way.

Some of the in-betweeners are utilities such as "WASH" which cleans up disks and their directories. FMAP shows your system io and memory data. There is MTEST (memory test routine) and FIND. The FIND utility is included on the LICA diskette. It provides an interesting way to locate any subject matter in either catalog.

To save your eyes and your typing finger(s) use FIND to search out the information. A typical FIND command:

FIND SIG/M 'MODEM'

The topic (in this case "MODEM") can be any ASCII string. If the string is MODEM, FIND will find all software containing the word MODEM in the title.

FIND SIG/M 'MODEM7'

will find all of the software with MODEM7 in the title.

FIND CPMUG CAT VOLUME

This is an easy way to get a printout of the volume numbers and their full titles without the detailed description of each of the software "chapters." Each volume has many "chapters" or programs.

The present number of volumes in the CP/MUG is 90. The number of volumes in the SIG/MUG is 145.

This library of diskettes were/and are paid for by dues from the CPM users group of LICA. The word "member" in this article refers to those members of the CPM users group.

The LICA disk is available for \$4.00 for non-members and \$3.00 for members. A temporary package of ten diskettes has been made available to all LICA members compliments of the CP/M users group. LICA members may borrow one for examination.

All diskettes are available including the latest releases. Members of the CP/M users group may borrow diskettes at any time with no charge. All others may purchase disks from the CP/M users group at any time.

For \$2.50 members of the CP/MUG can purchase disks from the library. All others may purchase the same disks for a charge of \$4.00. Included in the charges above are a one dollar donation to the CP/M users group to help defray the cost of new disks. Non-members are also paying a "copying" charge.

Those who wish to know more should contact Ed Dowdell or Al Levy.

Our thanks go to the various CP/Mers around the world who donated much of their time and talent to a)create this library and b)create the -CATALOG files which we are using to print the "SIG/M VOLUME #" pages of the STACK.

```
SIG/M volume 13
                                                       a) MITS to CP/M file conversion system
b) HELP file system
c) related system support programs
SIZE DESCRIPTION
                                                      c)
SIZE
   NUMBER
                   NAME
                   MITSCNVT.ASM
MITSCNVT.COM
MITSCNVT.CPM
MITSCNVT.DOC
MITSCNVT.HEX
                                                                       MITS to CP/M file conversion
   13.1
13.2
                                                      28K
  13.3
13.4
13.5
                                                      3K
7K
8K
2K
13K
  13.6
13.7
                    ABORTSUB.COM
                                                                       HELP file system
                   HELP - ASM
SYSLIB - HLP
SYSLIB - REL
HELP - COM
MASM - SUB
  13.8
13.9
13.10
13.11
                                                       9K
                                                        2K
1K
   13.12
                   PHELP . COM
                                                        2K
                   PHELP . MAC
   13.13
                                                       6K
                   HELP DOC
SD-2/6 ASM
SD COM
   13.14
                                                        4K
  13.15
13.16
                                                      18K
                                                                       updated SUPER DIRECTORY display
                                                       2K
6K
  13.17
                   ENTAB - ASM
                                                                       space suppression program
                   ENTAB . COM
                                                        1K
                   UTIL FOR
LOOPBAK1 BAS
                                                                      FORTRAN array handling subroutine PMMI loop back test
   13.19
   13.20
  SIG/M VOLUME 14 HELP file system on major system level software
  NUMBER
                                                     SIZE
                                                                      DESCRIPTION
                                                                            SCRIPTION
P file system describing
HELP file system
CP/M 1.4
CP/M 2.2
CP/M 1.4 ASM (assembler)
CP/M 2.2 ASM (assembler)
CP/M MAC (macro assembler)
  14.1
14.2
14.3
14.4
                  HELP • COM
HELP • HLP
CPM • HLP
CPM2 • HLP
                                                                      HELP
                                                       7K
                                                     31K
37K
4K
  14.5
                   ASM.HLP
  14.6
14.7
                   ASM2 . HLP
                                                       4K
                   MAC . HLP
                                                       8K
                  MBASIC-HLP
CBASIC-HLP
EBASIC-HLP
CBASIC2-HLP
MASM-HLP
  14.8
14.9
14.10
                                                     21K
14K
12K
                                                                            Microsoft BASIC
                                                                            CBasic
                                                                            Basic-E
CBasic-2
MACRO-80 (M80)
ALGOL-M
BDS 'C'
  14.11
                                                     22K
  14.12
                                                       8K
                  ALGOLM.HLP
C.HLP
FORTRAN.HLP
  14.13
                                                     13K
  14.14
                                                     17K
  14.15
                                                       7K
                                                                            Microsoft Fortran
                  PASCAL HLP
  14.16
                                                                            PASCAL/MT
                                                     10K
          documentation catalog of CP/M UG volumes 1-42
and SIG/M volumes 1-3 as published by the NYACC

volume contains the various *.DOC, ABSTRACT.*, READ.ME, etc files as contained in the CP/M UG and M volumes. This was compiled and published by the NYACC to facilitate ready reference of public in software for the micro-hobbiests. SIG/M volume 12 is the corresponding cross reference to this
  SIG/M
 This volume contains the various *.DOC, A SIG/M volumes. This was compiled ar domain software for the micro-hobbiests.
 CATALOG.nnn refers to a CP/M UG release volume nnn SIGMLOG.nnn refers to a SIG/M release volume nnn
 SIG/M
                                                      miscellaneous CP/M utilities
                       volume 16
 NUMBER
                       NAME
                                                      STZE
39K
                                                                            DESCRIPTION
  16.1
                       BYE67 . ASM
                                                                            remote console program for PMM1
                      BYE67.DOC
ML1ST42.ASM
DU-V75.OBJ
DU-V75.DOC
 16.2
                                                      12K
12K
                                                                            multiple file list utility
disk utility system
 16.4
                                                        6K
5K
 16.5
 16.6
                      DU-V75.ASM
FINDBD42.ASM
APLMODEM.ASM
                                                      40K
                                                                           /creates file of badspots
CP/M file transfer for Apple 2
using DC Hayes Micromodem 2
console string processor
merges multiple files
system disk utility display
multi-pass CP/M memory tester
 16.8
                                                      36K
                      COMAND . LIB
 16.9
                                                        7K
7K
                      COMBINE ASM
FILE-XT2 ASM
 16.10
 16.11
                                                        8K
 16,12
                      MNEMON21 . ASM
                                                      28K
 Sig/M volume 17
                                                    miscellaneous CP/M utilies
                                                    Size
                                                                    Description contents of Sig/M volume 17 acknowledgement file
                 -CATALOG • 017
-CATALOG • ACK
SCRAMBLE • DOC
SCRAMBLE • ASM
17.1
17.2
17.3
17.4
                                                    2K
6K
2K
13K
                                                                     command used to encode a CP/M file
                  SORTY DOC
                                                                     sort program for variable length records
                 SORTY-DOC
SORTY-12.ASM
TAG2.ASM
MNEXEC.COM
MNOVRLAY.ASM
WHICH/1.ASM
STATUS.ASM
17.5
17.6
17.7
17.8
17.9
                                                     6K
3K
4K
                                                                     set/reset display the "no copy" flag
                                                                    MicroNet executive
overlay for MicroNet executive
returns size and version of CP/M
present various systems information under 2.2
                                                      4K
                                                     8K
                NEWQCAT-ASM
WORM8/8-ASM
TFX12/18-ASM
XMODEM41-ASM
MOVPATCH-ASM
21BIOS-ASM
21BIOS-DOC
21BOOT-ASM
MACPO LIB
                                                   5K
7K
21K
29K
3K
17.10
                                                                    quick catalog routine
17.11
17.12
17.13
17.14
17.15
                                                                    remote CP/M file transfer utility remote CP/M to CP/M file transfer modifies MOVCPM for remote access new BIOS for CP/M 2.0
                                                   48K
17.16
17.17
17.18
                                                   3K
4K
18K
9K
                 MACRO . LIB
17.19
17.20
                 NPGEN - ASM
```

updated CP/M directory display

SPCLMAC.LIB XDIR.ASM

XDIR.COM

17.21

17.22

4K

```
miscellaneous CP/M utilities
 Sig/M
               volume 18
                -CATALOG.018
                                                            catalog of Sig/M volume 18 Description
                                             Size
                Name
                                                            ICOM microfloppy utility
 18.1
                2411DUMP . ASM
                                             18K
 18.2
18.3
                2411DUMP.COM
                                               3K
               MFMACRO . L. I B
                                             17K
                3812DUMP ASM
3812DUMP COM
 18.4
                                             21K
                                                            ICOM floppy utility
 18.5
                                               4K
 18.6
18.7
18.8
18.9
               DDMACRO LIB
AREACODE ASM
AREACODE COM
                                             18K
                                             14K
7K
                                                            region and state area code search
               BANZAI.ASM
CAT2.ASM
FMAP3.ASM
                                               9K
                                                            copyright notice protect
 18.10
18.11
18.12
                                               6K
7K
                                                                        catalog system for CP/M 2.X
                                                            master
              FMAP3.ASM

UCAT2.ASM

CHAT15.ASM

CHAT15.COM

DISPLAYP.ASM

DISPLAY.COM

DISPLAY.COM

FILE-EXT.ASM

FILE-EXT.ASM

FILE-XT2.ASM

FILE-XT2.COM

LOOK.ASM
                                               8K
 18.13
                                                            chat with local remote CP/M operator
 18.14
                                               3K
2K
3K
 18.15
                                                            display facilities of ED.COM
18.16
18.17
18.18
18.19
                                               7K
1K
                                                            display disk directory including hex data
18.20
18.21
18.22
18.23
                                               8K
1K
7K
                                                            same as FILE-EXT.ASM with 2.X compatibility
                                                            searches for 1-9 byte sequence in memory
               LOOK . COM
                                               1K
                                                           patch for real time clock in MAC.COM patch for real time clock in ASM.COM patch for real time clock in STAT.COM updated directory sort for CP/M 2.X
18.24
18.25
               MACT I ME . ASM
               ASMT I ME . ASM
                                               ŻK
                                              6K
6K
1K
18.26
18.27
18.28
               STATTIME · ASM
SAP · ASM
SAP · COM
18.29
               XLOOK . ASM
                                             13K
                                                            disk/examine/modify utility
Sig/M volume 19
                                             miscellaneous Pascal Z programs
               (original materials from Pascal Z User Group volume 1)
-CATALOG.019 contents of Sig/M volume 19
ABSTRACT.019 comments file
19.1
               AUTOBOOT . ASM
                                                            autoboot on CP/M cold start
19.2
19.3
19.4
               AUTOBOOT.COM
LINEARP.PAS
                                             1K
11K
21K
1K
                                                            simplex algorithm to minimize
a cost function to constraints
demo for variant records
               LINEARP.COM
19.5
               VARIANT PAS
                                             5K
2K
6K
9K
13K
 19.6
               VARIANT . COM
19.7
19.8
19.9
19.10
               REVERSE . COM
EDITFILE . COM
EDITFILE . COM
                                                            demo for linked lists
                                                            adapted from S-100 Microsystems
               RT.PAS
                                               4K
                                                            demo program for non-text files
19.12
19.13
               RT . COM
                                               8K
                                                            game
               STARS . PAS
                                               бΚ
               STARS.COM
ADDN.PAS
19.14
19.15
                                               7K
1K
                                                            simple demo to add two numbers
19.16
19.17
               ADDN . COM
                                               6K
               ZMNEMONS . DOC
                                                           programming aid demo on FOR loops
                                             13K
19.18
               TRIAN.PAS
                                               1K
19.18
19.19
19.20
19.21
19.23
19.23
19.24
19.25
               TRIAN.COM
CONCHAR.PAS
                                               4K
                                              6K
                                                                         for command line input
               SCAN2X PAS
SCAN2X COM
STRDEMO PAS
                                               5K
                                                            file READ evaluation
                                              8K
                                                           demo on string functions
part of STRDEMO.PAS
demo to string words together
                                             14K
                                              4K
3K
7K
               STRL IB . DOC
               LONG . PAS
LONG . COM
                                                           convert REL. files from function blks novice utility convert gas in liters
19.27
               MAKEREL . DOC
                                              8K
19.27
19.28
19.29
19.30
19.31
19.32
               LIOS.ASM
CONVERT.PAS
                                              1K
              CONVERT.COM
COMPARE.!!!
DUMP.ASM
LSTR.PAS
                                              6K
                                                           compare source code files from UCSD expanded CP/M DUMP program generates a line of various length
                                             11K
23K
Sig/M volume 20
                                       PCE System Monitor
                                     (original materials from Pascal Z User Group volume 2)
103K Complete Manual of System Monitor
2K Central subsystem module
11K Command subsystem, module one
12K Command subsystem, module two
3K Intel I/O standard vector subsystem
20.1
                 SYSMON . DOC
                SYSMON.DOC
SYSMONA.Z80
ASPM1.Z80
ASPM2.Z80
VECTOR.Z80
CONSOL.Z80
DISK.Z80
20.2
20.3
20.4
20.5
                                                     Console subsystem

Floppy disk subsystem, it ties CPM to the monitor so that both operate
as an integrated whole
Cassette subsystem, controls the Dajen/
Teletek UCRI, includes Zapple compatile (RI) & (PO)
20.6
20.7
                                             14K
20.8
                 CASS.Z80
                                              8K
20.9
                BMGEN.Z80
BMGEN.COM
                                              1K
20.10
                                              1K
                                            10K
3K
16K
                LOADER.Z80
                                                      Static loader for system
20.12
                 LOADER . COM
                 SYS.COM
                                                      Sys Monitor boot-up program
                                                     Used with bringing up bit map
Used with bringing up bit map
Sample command, similiar to a COM file, a 1 Disk subsystem test utility
20.14
20.15
                ONE • HEX
ZERO • HEX
                                             14K
                                             14K
                COPYTT.Z80
COPYTT.SMC
20.16
                                              1K
```

```
(original materials from Pascal Z User Group volume 3)
                   Name
AUTHOR • PAS
                                                     Size
                                                                      Description
  21.1
21.2
21.2a
21.2b
21.2c
21.3
21.4
21.5
                                                     10K
11K
1K
                                                                      general purpose "keyword in text"
                    AUTHOR . COM
                    ADDRESS
                   BYTE . MAG
                                                       1K
                    $100 - MAG
                   CALC PAS
CALC COM
CPLOT PAS
                                                                      calculator mode program
                                                     16K
                                                       2K
5K
1K
  21.5
21.6
21.7
21.8
21.9
21.10
21.11
21.12
21.13
21.14
                                                                      simple banner program
                   CPLOT COM
DELAY PAS
                                                                      general Pascal Z utilities
                   DELAY . REL
                                                       1K
                   DELAY SRC
                                                    INPORT .REL
INPORT .SRC
OUTPORT .REL
OUTPORT .SRC
KEYIN .REL
KEYIN .SRC
NAD .PAS
NAD .COM
TD I ABLO .MAC
TD I ABLO .MAC
  21.16
21.17
                                                                     permuted keyword index program
  21 • 18
21 • 19
                                                                      driver for Diablo w/Teletek FDC-1
                  TDIABLO.COM
DIABLO.Z80
DIABLO.COM
RANDOM.PAS
                                                       ĬK
  21 • 19
21 • 20
21 • 21
21 • 22
21 • 23
21 • 24
21 • 25
21 • 26
21 • 27
21 • 28
                                                                     driver for Diablo w/SD Systems $100
                                                       1K
                                                      2K
1K
4K
                                                                     Fibonacci random number generator
                  RANDOM - REL
RANDOM - SRC
                  REBOOT . COM
                                                                     rebooting desired file
Pascal Z library
Wumpus game in Pascal Z
                                                    12K
12K
15K
4K
1K
                  STRLIB.LIB
WUMPUS.PAS
WUMPUS.COM
 21.29
21.30
21.31
21.32
21.33
21.34
21.35
21.36
21.37
21.38
21.39
                  WUMPUS . DOC
                  CAVEO
CAVEO
CAVEO
CAVEO
                                                      1K
1K
1K
1K
6K
                  CAVE5
                  ENTRY - PAS
                                                                     creating SRC files
                 ENTRY COM
ENTRY DOC
PEEK PAS
POWER I PAS
POWER I COM
                                                      9ĸ
                                                      6K
2K
1K
7K
2K
                                                                     peek and poke in Pascal Z
                                                                     demo program on powers of numbers
 21 • 40
21 • 41
                 POWER I - REL
RDR - PAS
DU - Z80
DU - COM
 21 • 42
21 • 43
21 • 44
                                                   7K
29K
4K
1K
                                                                    an alpha-numeric numbers conversion program updated disk utility using Z80 code
 21.45
                  DU . DOC
 Sig/M volume 22
                                                   miscellaneous Pascal Z utilities
                  (original materials from Pascal Z User Group volume 4)
CFIO.LIB 2K program to open files
CONCORD.COM 10K program that builds an alphabetical
CONCORD.PAS 11K listing of distinct words
                 CFIO.LIB
CONCORD.COM
CONCORD.PAS
 22.1
22.2
22.3
22.4
22.5
22.6
22.7
22.8
22.9
22.11
22.12
22.13
                 COSINE PAS
COSINE REL
COSINE SRC
GEN5 COM
GEN5 PAS
                                                     2K
                                                                    Cosine program
                                                     2K
6K
8K
5K
                                                                    demo on accessing CP/M files
                GRAPH1.COM
GRAPH1.PAS
ISORTV1.COM
ISORTV1.PAS
LINENOS.COM
LINENOS.PAS
                                                   10KK 4KK 4KK 5KK 5KK 5KK
                                                                    demo on creating a graphic representation / of a function.
insertion sort with linked list
                                                                    keep track of text lines
22.15
22.16
22.17
22.18
22.19
22.20
22.21
22.22
22.23
22.24
22.25
22.26
22.27
                 POINT COM
POINT PAS
RANDOM MAC
                                                                    demo on the use of pointers
                                                                    "professional" random number generator
                 RANDOM PAS
                                                                    simple random number generator
                 SINCOS SRC
                                                                    sine/cosine utility
                 SINCOS . REL
                                                   5K
13K
9K
2K
13K
                 STRLIB.DOC
STRLIB.LIB
TRIG4.COM
                                                                   Ray Penley's latest updated string lib.
                                                                   simple Demo program that builds a
/ short Trig chart
a binary tree type cross-ref generator
                TRIG4.COM
TRIG4.PAS
XREFG2.COM
XREFG2.PAS
ZPTEX.COM
ZPTEX.PAS
                                                   18K
8K
                                                                   very simple text formatter
22.27
22.28
22.29
22.30
22.31
22.32
22.33
                                                    8K
5K
                ZPTEX.PAS
LESSON4.
RECIPE.COM
RECIPE.PAS
RECIPE.MST
RCPDAT.YYY
FCLOSE.COM
FCLOSE.PAS
                                                  12K
17K
                                                                   recipe program
                                                    1K
8K
                                                                 three different ways to close a file in Pascal Z.
22.35
```

LICA DUES

1984 DUES will be collected during the first 30 minutes of the General Meeting. If you intend to pay at the meeting, try to get your dues paid before 8:30

PLEASE HELP

Doug McGarrett needs a SIGNETICS 8T16-IC Immediately if not sooner. If you can help to locate this chip call: (212) 464-4487

Complete volumes of THE STACK are available on SS/SD disks (8" for CP/M) and (5" FOR Northstar). We can provide disks for APPLE, MORROW and other machines. Call 293-8368 for details. Disks will be made available to the membership for a nominal fee just after the 1st of January 1984. The price will be slightly higher for non-club members. The average issue runs about 70K.

NOTICE

The entire CP/M SIG/M users' library is available on 5" northstar disks. We will copy onto any format disk provided time is allowed for the copying and a (copy to) machine is available. Dues will help pay for the library costs only. If interested, call me at (516) 293-8368. Disks will supplied for the cost of the media. Ed Dowdell is maintaining the 8" disks while I will baby-sit the little guys. Ed's suggestion: Let's start reviewing the software. Do I see any hands?

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Falcon Computers 111 N. Broadway Hicksville Future Visions 70 Broad Hollow Rd Melville Harrison Computer Center 2263 Broadhollow Rd E Farmingdale Interlogic Computer Center 117 Broadway Hicksville L1 Computer General Store 103 Atlantic Avenue Lynbrook Programs Unlimited 20A Jericho Turnpike Programs Unlimited Smithtown Mall Programs Unlimited 5002 Jericho Turnpike Commack Software Emporium 151 Mineola/Willis Ave Roslyn Hghts Spartan Electronics 6094 Jericho Turnpike Commack The Computer Touch 709 Route 110 Melville	Computers For Less	297 Commack Road	Commack
Future Visions 70 Broad Hollow Rd Melville Harrison Computer Center 2263 Broadhollow Rd E Farmingdale Interlogic Computer Center 117 Broadway Hicksville L1 Computer General Store 103 Atlantic Avenue Lynbrook Programs Unlimited 20A Jericho Turnpike Jericho Programs Unlimited Smithtown Mall Smithtown Programs Unlimited 5002 Jericho Turnpike Commack Software Emporium 151 Mineola/Willis Ave Roslyn Hghts Spartan Electronics 6094 Jericho Turnpike Commack The Computer Touch 709 Route 110 Melville	Entre' Computer Center	167 Route 110	Huntington
Harrison Computer Center 2263 Broadhollow Rd E Farmingdale Interlogic Computer Center 117 Broadway Hicksville L1 Computer General Store 103 Atlantic Avenue Lynbrook Programs Unlimited 20A Jericho Turnpike Jericho Programs Unlimited Smithtown Mall Smithtown Programs Unlimited 5002 Jericho Turnpike Commack Software Emporium 151 Mineola/Willis Ave Roslyn Hghts Spartan Electronics 6094 Jericho Turnpike Commack The Computer Touch 709 Route 110 Melville	Falcon Computers	111 N. Broadway	Hicksville
Interlogic Computer Center 117 Broadway Hicksville L1 Computer General Store 103 Atlantic Avenue Lynbrook Programs Unlimited 20A Jericho Turnpike Jericho Programs Unlimited Smithtown Mall Smithtown Programs Unlimited 5002 Jericho Turnpike Commack Software Emporium 151 Mineola/Willis Ave Roslyn Hghts Spartan Electronics 6094 Jericho Turnpike Commack The Computer Touch 709 Route 110 Melville	Future Visions	70 Broad Hollow Rd	Melville
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Programs Unlimited 20A Jericho Turnpike Jericho Programs Unlimited Smithtown Mall Smithtown Programs Unlimited 5002 Jericho Turnpike Commack Software Emporium 151 Mineola/Willis Ave Roslyn Hghts Spartan Electronics 6094 Jericho Turnpike Commack The Computer Touch 709 Route 110 Melville	Interlogic Computer Center	117 Broadway	Hicksville
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Software Emporium 151 Mineola/Willis Ave Roslyn Hghts Spartan Electronics 6094 Jericho Turnpike Commack The Computer Touch 709 Route 110 Melville	Programs Unlimited	Smithtown Mall	Smithtown
Spartan Electronics 6094 Jericho Turnpike Commack The Computer Touch 709 Route 110 Melville	Programs Unlimited	5002 Jericho Turnpike	Commack
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The Long Island Computer Association, INC.

is open to everyone, amateur or professional with an interest in computers, computer applications, programming, or related subjects. Dues are \$12.00 per year which includes monthly issues of this publication.

LICA meets each month on the third Friday evening at 8:00 in Room 508, Building 500. Our next general meeting will be on the 18th of August. Our speaker will be Ron Richards. Mr. Richards topic is the future of rotating media.

Members can vote in club elections, & place non-commercial classified ads or commercial ads at nominal cost.

Long Island Computer Association, Inc. - Special Interest Groups

SUB-GROUP	CHAIRMEN	PHONE (516)	Meetings Each Month
=======================================		THE COURT CO	
6502/COMMODORE 680X	George Carlson Roger Kaucher	796-8746	3rd Friday 7:00
FRAN/APPLE IBM - Suffolk	Susan Heimlich Marvin Freifeld	759-9716 724-Ø574	3rd Friday 7:00 2nd Friday 7:00
IBM - Nassau PolyMorphic	Al Lower	724-Ø574 293-8368	3rd Friday 7:00 3rd Friday 7:00
S/100 CP/M	Al Levy Bob Sewall	541-4837	2nd Friday 7:30
TRS-80	Ed Zuilkowski	938-3320	2nd Friday 7:00
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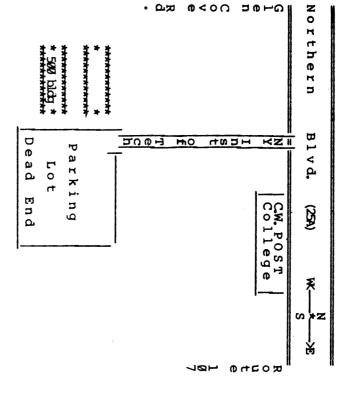
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